



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

649.4701
Job Sheet 187156



Part No: 649.4701

Job Qty: 1 ea

Part Name: AW119 Cable Cutter System



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/28/18

Due Date: 12/18/18

Type: SOLD

Job Tracking No:

Created By: Marie Lajeunesse

Description:

Note: 649.4700 rev.F IPP REV:A 12.11.05 NEW ISSUE DD VERF:JLM IPP REV:B AS PER ECR 12-54 13-07-09
JLM VERIFIED BY:DD IPP REV:C 16.08.11 AS PER DWG REV.C DD VERF:JLM IPP REV:D 17.11.08 AS
PER DWG REV.E2 DD VERF:JFS IPP REV:E 18.03.28 AS PER DWG REV.F DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		DEC 10 2018 Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	12/18/18	12/18/18	0.00	0.00	Start Up Stores/Pkg-1		DAS
100	Packaging	1 pcs	12/18/18	12/18/18	0.00	0.00	Packaging1-1		46 DEC 27 2018
110	QC	1 pcs	12/18/18	12/18/18	0.00	0.00	QC4		9-89 69 DAS
120	Packaging	1 pcs	12/18/18	12/18/18	0.00	0.00	Packaging3-1		9-89 69
130	QC21-FG	1 Ea	12/18/18	12/18/18	0.00	0.00	QC21		DEC 28 2018 9-89

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
649.4902	Lower Cutter Assembly	1 Ea (1 ea)	90-Start up Operation	5128971
649.5113	Wiper Deflector Shim	2 Ea (2 ea)	90-Start up Operation	5064113
MS24694-S62	Screw	2 Ea (2 ea)	90-Start up Operation	5119850.0
MS27039-1-12	Screw	2 Ea (2 ea)	90-Start up Operation	5124664
NAS1330S08KB321	RIVNUT	8 Ea (8 ea)	90-Start up Operation	5098506
649.4901	Upper Cutter Assembly	1 Ea (1 ea)	90-Start up Operation	5138902
649.5010	Deflector	1 Ea (1 ea)	90-Start up Operation	5027817
649.5214	Bracket	1 Ea (1 ea)	90-Start up Operation	5130175
649.5212	Bracket	1 Ea (1 ea)	90-Start up Operation	5059207
649.4811	Clip	1 Ea (1 ea)	90-Start up Operation	5066635
649.5012	Deflector	2 Ea (2 ea)	90-Start up Operation	5069654
649.5013	Deflector	2 Ea (2 ea)	90-Start up Operation	5074884
649.5213	Doubler	2 Ea (2 ea)	90-Start up Operation	5050479
649.5011	Deflector	1 Ea (1 ea)	90-Start up Operation	5074262
649.5210	Doubler	2 Ea (2 ea)	90-Start up Operation	5053238
649.4814	Doubler	2 Ea (2 ea)	90-Start up Operation	5064887
649.4816	Doubler	1 Ea (1 ea)	90-Start up Operation	
601-3493	Quick Release Pin	2 pcs (2 ea)	90-Start up Operation	5123759
649.5211	Shim	1 Ea (1 ea)	90-Start up Operation	5118557
649.4813	Shim	4 Ea (4 ea)	90-Start up Operation	
649.4812	Shim	3 Ea (3 ea)	90-Start up Operation	5064806
649.4815	Shim	4 Ea (4 ea)	90-Start up Operation	5070845
646.9910	Struts	4 Ea (4 ea)	90-Start up Operation	509817
647.9014	Strut Bracket	8 Ea (8 ea)	90-Start up Operation	5070289x6 5018541x2

Entered: _____ Date: _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE



NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use as is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Cross tube ☐ Small Fab ☐	Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐																						
Date: _____		Container No: S137160 Part: 649.4701 Job No: 187156 Serial No/Batch: S137160 Revision: F Inspector: _____ Exp Date: _____ Instructions: FAA STC SR02425LA 12/06/13, BRAZIL STC 21																							
Description Work _____																									
Root Cause <table style="width: 100%;"> <tr> <td style="width: 50%;">Operator ☐</td> <td style="width: 50%;"></td> </tr> <tr> <td>Manufacturing Process ☐</td> <td></td> </tr> <tr> <td>Equip/Tooling ☐</td> <td></td> </tr> <tr> <td>Handling/Preservation ☐</td> <td></td> </tr> <tr> <td>Material ☐</td> <td></td> </tr> <tr> <td>Product Improvement ☐</td> <td></td> </tr> <tr> <td>Process Improvement ☐</td> <td></td> </tr> <tr> <td>Human Factors ☐</td> <td></td> </tr> </table>		Operator ☐		Manufacturing Process ☐		Equip/Tooling ☐		Handling/Preservation ☐		Material ☐		Product Improvement ☐		Process Improvement ☐		Human Factors ☐		MRB (QSI042) Completed By _____ Lead hand / Supervisor _____ QC / QA Coordinator _____							
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	Misread ☐																								
Other/Details: _____																									

649.5110	Wiper Deflector	2 Ea (2 ea)	90-Start up Operation	5043123
649.5111	LH Wiper Deflector	1 Ea (1 ea)	90-Start up Operation	5041010
649.5112	RH Wiper Deflector	1 Ea (1 ea)	90-Start up Operation	5041082
AN3C12A	Bolt	8 Ea (8 ea)	90-Start up Operation	5099999
AN4C5A	Bolt	4 Ea (4 ea)	90-Start up Operation	509402
AN4C7A	Bolt	2 Ea (2 ea)	90-Start up Operation	5095478
CR3213-5-4	Cherry Rivet	8 Ea (8 ea)	90-Start up Operation	5066948
CR3213-4-5	Rivet	24 Ea (24 ea)	90-Start up Operation	Fm138414-40x17 Fm138040-1x7
91420A230	Screw	13 Ea (13 ea)	90-Start up Operation	5042730
NAS1832-3-7	Insert	8 Ea (8 ea)	90-Start up Operation	Fm1276152
NAS1832-4-7	Insert	2 Ea (2 ea)	90-Start up Operation	5123758
NAS1834C3-300	Insert	2 Ea (2 ea)	90-Start up Operation	5153859
MS21042L08	Nut	9 Ea (9 ea)	90-Start up Operation	5100409
MS21042L3	Nut	22 Ea (22 ea)	90-Start up Operation	5094592
MS21042L4	Nut	4 Ea (4 ea)	90-Start up Operation	5112434
MS21059-3	Nut Plate	3 Ea (3 ea)	90-Start up Operation	5123900-3
MS20426AD3-5	Rivet	6 Ea (6 ea)	90-Start up Operation	54533
MS20470AD4-5	Rivet, Universal Head	22 Ea (22 ea)	90-Start up Operation	5049829
MS20470AD5-11	Rivet	2 Ea (2 ea)	90-Start up Operation	5107100-1
MS24694-C57	Screw	2 Ea (2 ea)	90-Start up Operation	5123648.0
MS27039-1-18	Screw	4 Ea (4 ea)	90-Start up Operation	5124324
MS27039-1-14	Screw	4 Ea (4 ea)	90-Start up Operation	5120449-40
MS27039-08-24	Screw (MS27039-0824)	3 Ea (3 ea)	90-Start up Operation	5098209
MS27039-1-13	Screw	13 Ea (13 ea)	90-Start up Operation	5071833
MS27039-08-19	Screw	26 Ea (26 ea)	90-Start up Operation	5104359
MS27039-1-25	Screw	2 Ea (2 ea)	90-Start up Operation	Fm127432
MS27039-1-08	Screw	2 Ea (2 ea)	90-Start up Operation	5104017
MS27039-1-10	Screw	6 Ea (6 ea)	90-Start up Operation	5124663
AN970-3	Washer	2 Ea (2 ea)	90-Start up Operation	5082331
NAS1149F0332P	Washer	53 Ea (53 ea)	90-Start up Operation	5133206
NAS1149FN832P	Washer	18 Ea (18 ea)	90-Start up Operation	51037796
NAS1149F0432P	Washer	8 Ea (8 ea)	90-Start up Operation	5103456
NAS620C-10L	Washer	8 Ea (8 ea)	90-Start up Operation	Fm127432-25
601.2045	RTV (LOCTITE 598)	1 Ea (1 ea)	90-Start up Operation	5081068
600.1012	Sealant PR1425B2 (#654 sem)	1 pcs (1 ea)	90-Start up Operation	5132228
NAS1149F0363P	Washer	16 Ea (16 ea)	90-Start up Operation	5075330
649.4817	Shim	4 Ea (4 ea)	90-Start up Operation	5053319
649.4820	Shim	1 Ea (1 ea)	90-Start up Operation	5066654
MS27039-08-13	Screw	12 Ea (12 ea)	90-Start up Operation	506508
NAS1149CN832R	Washer	4 Ea (4 ea)	90-Start up Operation	5014734
MS21069-08	Anchor Nut	16 Ea (16 ea)	90-Start up Operation	5043973
MS20426AD3-4	Rivet	32 Ea (32 ea)	90-Start up Operation	Fm1136444-2-1
649.4818	Shim	1 Ea (1 ea)	90-Start up Operation	5067951
649.4819	Shim	2 Ea (2 ea)	90-Start up Operation	5066636
NAS1330S08KB106	RIVNUT	8 Ea (8 ea)	90-Start up Operation	5043783x8
MS20426AD4-4	Rivet	4 Ea (4 ea)	90-Start up Operation	5125445-4
NAS9303B-5-03	Rivet	4 Ea (4 ea)	90-Start up Operation	Fm138484-1

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	600.1012	1	30	0
	601.2045	1	18	0
	601.3493	2	14	0
	646.9910	4	1	0
	647.9014	8	36	0
	649.4811	1	6	0
	649.4812	3	3	0
	649.4813	4	18	0
	649.4814	2	6	0
	649.4815	4	21	0
	649.4816	1	45	0
	649.4817	4	10	0
	649.4818	1	9	0
	649.4819	2	2	0

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor		
			QC / QA Coordinator		
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

649.4820	1	8	0
649.4901	1	0	0
649.4902	1	4	0
649.5010	1	8	0
649.5011	1	10	0
649.5012	2	8	0
649.5013	2	11	0
649.5110	2	2	0
649.5111	1	0	0
649.5112	1	0	0
649.5113	2	3	0
649.5210	2	11	0
649.5211	1	3	0
649.5212	1	2	0
649.5213	2	3	0
649.5214	1	6	0
91420A230	13	103	0
AN3C12A	8	82	0
AN4C5A	4	59	0
AN4C7A	2	125	0
AN970-3	2	185	0
CR3213-4-5	24	118	0
CR3213-5-4	8	125	0
MS20426AD3-4	32	4,240	0
MS20426AD3-5	6	1,940	0
MS20426AD4-4	4	2,961	0
MS20470AD4-5	22	761	0
MS20470AD5-11	2	961	0
MS21042L08	9	1,087	0
MS21042L3	22	3,657	0
MS21042L4	4	2,610	0
MS21059-3	3	295	0
MS21069-08	16	145	0
MS24694-C57	2	120	0
MS24694-S62	2	73	0
MS27039-08-13	12	552	0
MS27039-08-19	26	1,219	0
MS27039-08-24	3	179	0
MS27039-1-08	2	346	0
MS27039-1-10	6	199	0
MS27039-1-12	2	214	0
MS27039-1-13	13	432	0
MS27039-1-14	4	375	0
MS27039-1-18	4	1,218	0
MS27039-1-25	2	67	0
NAS1149CN832R	4	733	0
NAS1149F0332P	53	1,804	0
NAS1149F0363P	16	533	0
NAS1149F0432P	8	1,396	0
NAS1149FN832P	18	1,419	0
NAS1330S08KB106	8	708	0
NAS1330S08KB321	8	480	0
NAS1832-3-7	8	129	0
NAS1832-4-7	2	16	0
NAS1834C3-300	2	126	0
NAS620C-10L	8	377	0
NAS9303B-5-03	4	48	0

Part Specifications

Specifications could not be found.

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

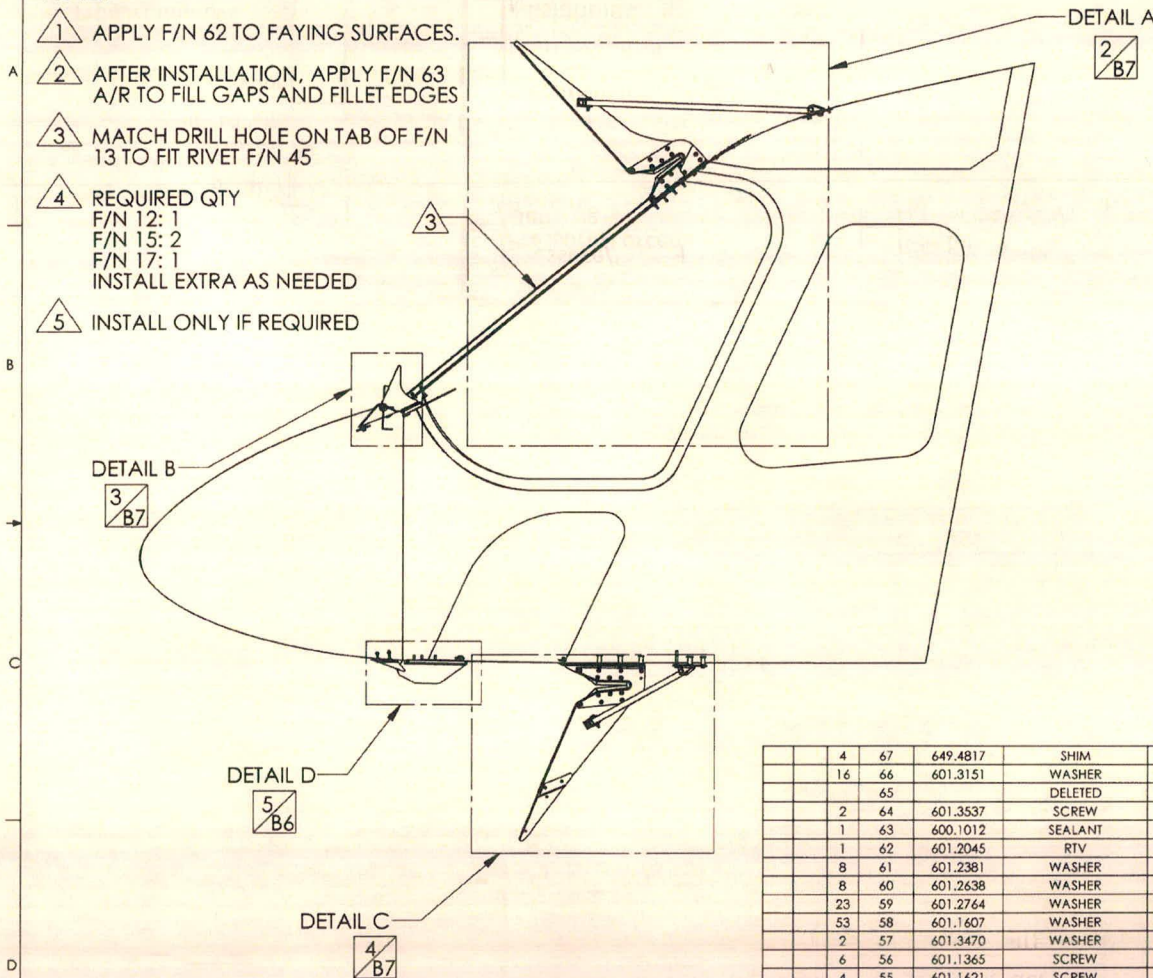
Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

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NOTES:

- 1 APPLY F/N 62 TO FAYING SURFACES.
- 2 AFTER INSTALLATION, APPLY F/N 63 A/R TO FILL GAPS AND FILLET EDGES
- 3 MATCH DRILL HOLE ON TAB OF F/N 13 TO FIT RIVET F/N 45
- 4 REQUIRED QTY
F/N 12: 1
F/N 15: 2
F/N 17: 1
INSTALL EXTRA AS NEEDED
- 5 INSTALL ONLY IF REQUIRED



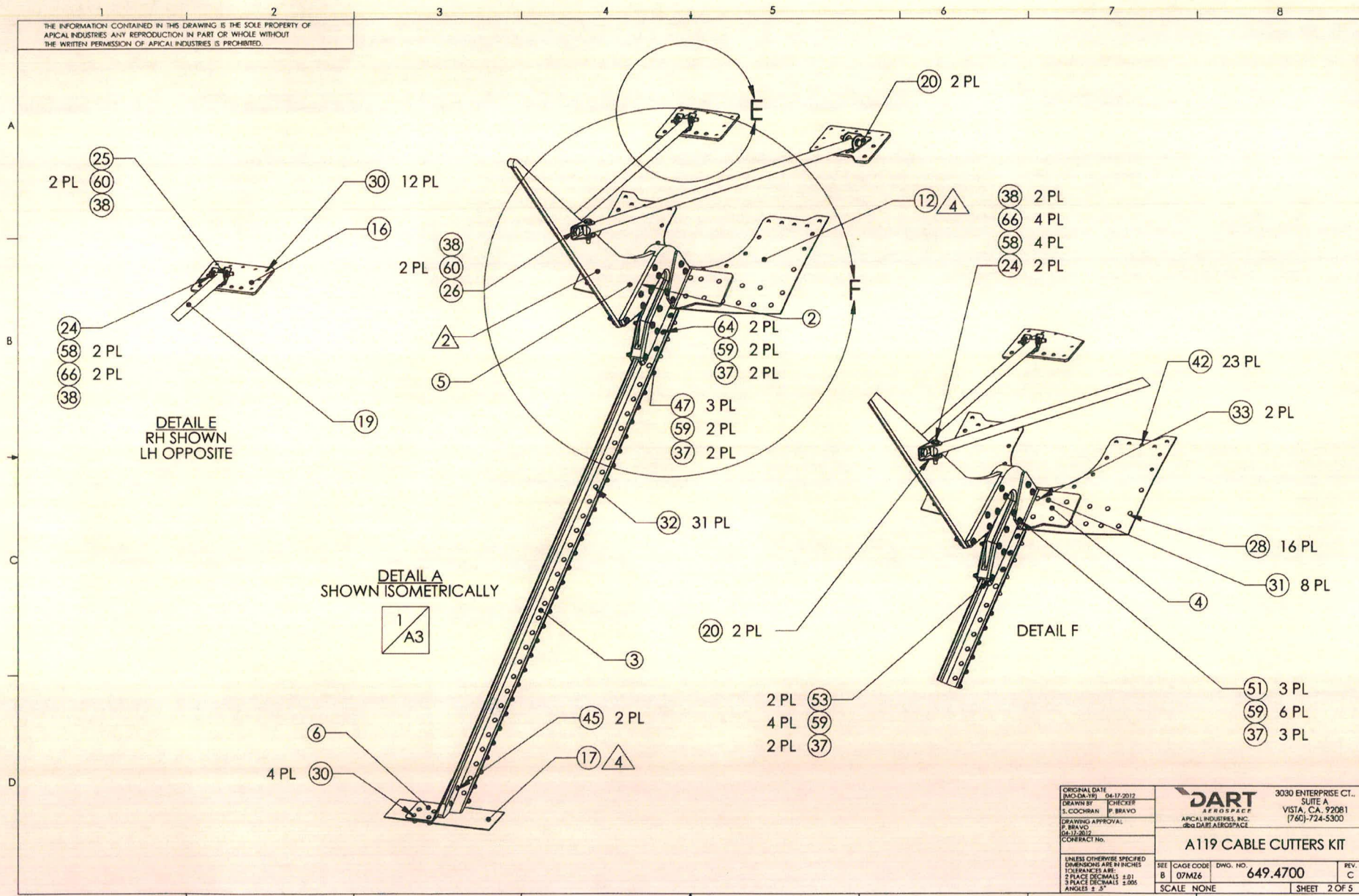
REVISIONS				REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED	REV.	DESCRIPTION	DATE	APPROVED
C	INCORPORATED ECH 03739, 03885, 04484, 05503	07-28-14	P. BRAVO	1	LAST PROTOTYPE REVISION: P22		
				H/C	INITIAL RELEASE	01-26-12	P. BRAVO
				A	INCORPORATED ECH 02444, 01489	04-17-12	P. BRAVO
				B	INCORPORATED ECH 83327	05-29-12	P. BRAVO

2	48	601.3252	SCREW	MS24694S58	
3	47	601.3536	SCREW	MS24694S13	
2	46	601.3146	SCREW	MS24694C57	
8	45	601.1125	RIVET	MS20470AD5-11	
4	44	601.2542	RIVET	MS20470AD5-9	
	43		DELETED		
23	42	601.1773	RIVET	MS20470AD4-3	
12	41	601.1616	RIVET	MS20426AD3-5	
6	40	601.1900	NUTPLATE	MS21059-3	
1	39	601.3209	LOCKNUT	MS21042L4	
25	38	601.1624	LOCKNUT	MS21042L3	
14	37	601.1541	LOCKNUT	MS21042L08	
2	36	601.3008	INSERT	NAS1834C-300	
2	35	601.3468	INSERT	NAS1832-4-7	
8	34	601.3459	INSERT	NAS1832-3-7	
2	33	601.3474	CHERRY RIVET	CR3214-5-02	
31	32	601.3496	CHERRY RIVET	CR3213-6-12	
20	31	601.3472	CHERRY RIVET	CR3213-5-05	
29	30	601.1183	CHERRY RIVET	CR3213-4-05	
	29		DELETED		
16	28	601.2020	CHERRY RIVET	CR3213-5-03	
2	27	601.3473	CHERRY RIVET	NAS1097AD-4-3	
2	26	601.2669	BOLT	AN4C7A	
4	25	601.3555	BOLT	AN4CSA	
8	24	601.0788	BOLT	AN3C12A	
1	23	649.5112	WIPER DEFLECTOR		
1	22	649.5111	WIPER DEFLECTOR		
2	21	649.5110	WIPER DEFLECTOR		
8	20	647.9014	STRUT BRACKET		
4	19	646.9910	STRUT		
3	18	649.4815	SHIM		
3	17	649.4812	SHIM		
2	16	649.5213	DOUBLER		
4	15	649.4813	SHIM		
1	14	649.5211	SHIM		
2	13	601.3493	QUICK RELEASE PIN		
3	12	649.4816	DOUBLER		
2	11	649.4814	DOUBLER		
2	10	649.5210	DOUBLER		
1	9	649.5011	DEFLECTOR		
2	8	649.5013	DEFLECTOR		
2	7	649.5012	DEFLECTOR		
1	6	649.4811	CLIP		
1	5	649.5212	BRACKET		
1	4	649.5214	BRACKET		
1	3	649.5010	DEFLECTOR		
1	2	649.4901	UPPER CUTTER ASSY		
1	1	649.4902	LOWER CUTTER ASSY		
		649.4701	A119 CABLE CUTTERS KIT		

4	67	649.4817	SHIM		
16	66	601.3151	WASHER	NAS1149F0363P	
	65		DELETED		
2	64	601.3537	SCREW	MS24694S14	
1	63	600.1012	SEALANT	PR-1475 CLASS B	
1	62	601.2045	RTV	LOCTITE 598	
8	61	601.2381	WASHER	NAS620C-10L	
8	60	601.2638	WASHER	NAS1149F0432P	
23	59	601.2764	WASHER	NAS1149F0832P	
53	58	601.1607	WASHER	NAS1149F0332P	
2	57	601.3470	WASHER	AN970-3	
6	56	601.1365	SCREW	MS27039-1-10	
4	55	601.1621	SCREW	MS27039-1-08	
2	54	601.3289	SCREW	MS27039-1-25	
6	53	601.2765	SCREW	MS27039-0819	
13	52	601.3190	SCREW	MS27039-1-13	
3	51	601.3124	SCREW	MS27039-0824	
4	50	601.1622	SCREW	MS27039-1-14	
4	49	601.2910	SCREW	MS27039-1-18	
4701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

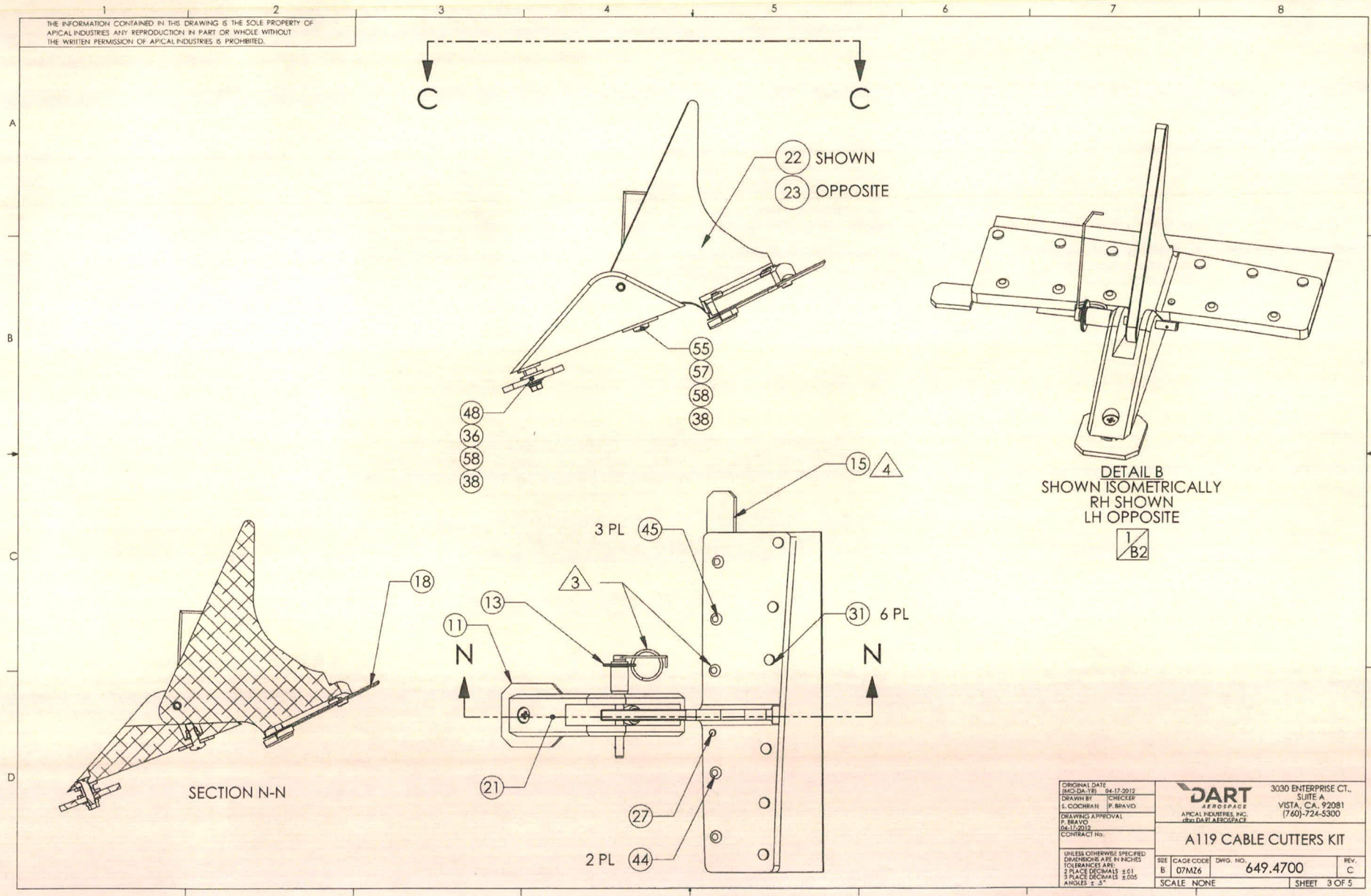
QTY	4701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
NEXT ASSY (S)						
ORIGINAL DATE: 04-17-2012						
DRAWN BY: S. COCHRAN						
DRAWING APPROVAL: P. BRAVO						
CONTRACT NO.						
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: 3 PLACE DECIMALS ±.015, ANGLES ±.5°						
PARTS LIST						
DART AEROSPACE APICAL INDUSTRIES, INC. 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300						
A119 CABLE CUTTERS KIT						
REV. C	SCALE: NONE	DWG. NO. 649.4700	SHEET 1 OF 5			

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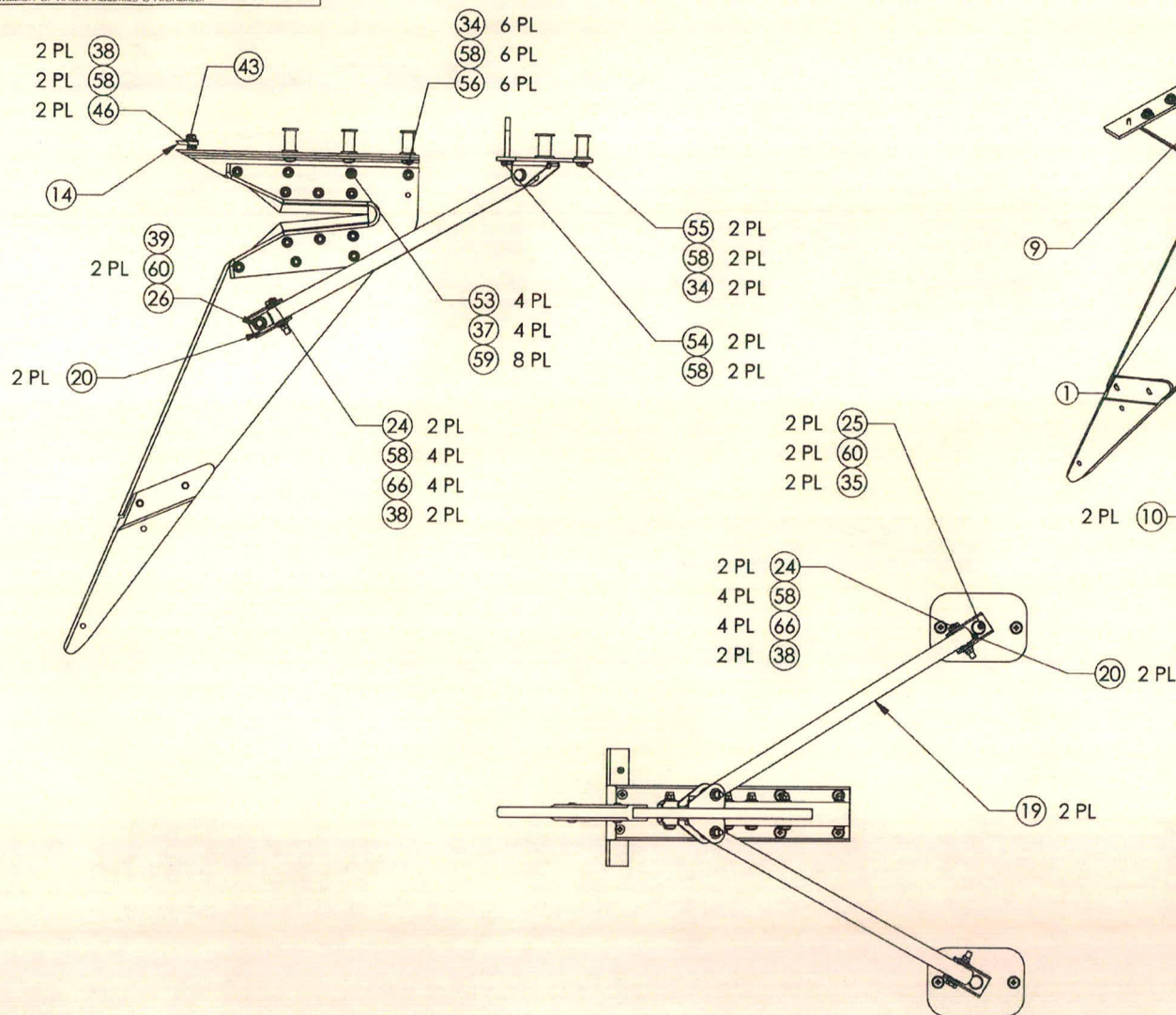
ORIGINAL DATE (M/D/Y) 06-17-2012		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. COCHRAN P. BRAVO		APICAL INDUSTRIES INC. dga@apical.com	
DRAWING APPROVAL P. BRAVO (06-17-2012)		A119 CABLE CUTTERS KIT	
CONTRACT NO.		SEE CAGE CODE B 07M26	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		DWG. NO. 649.4700	SHEET 2 OF 3
SCALE NONE			

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ORIGINAL DATE (MCO DA-18) 04-17-2012		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY: CHICELP S. COCHRAN P. BRAVO		DART AEROSPACE APICAL INDUSTRIES, INC. JESOLITE AEROSPACE	
DRAWING APPROVAL P. BRAVO 04-17-2012		A119 CABLE CUTTERS KIT	
CONTRACT NO.		SIZE: CAGE CODE: DWG. NO. 649.4700	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS ±.01 2 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE: NONE	SHEET 3 OF 5

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DETAIL C
SHOWN ISOMETRICALLY



ORIGINAL DATE
04-17-2012
DRAWN BY
L. COCHRAN
CHECKER
P. BRAVO
DRAWING APPROVAL
P. BRAVO
DATE
04-17-2012
CONTRACT NO.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°

DART
AEROSPACE
APICAL INDUSTRIES, INC.
8800 DART AEROSPACE

3030 ENTERPRISE CT.,
SUITE A
VISTA, CA. 92081
(760)-724-5300

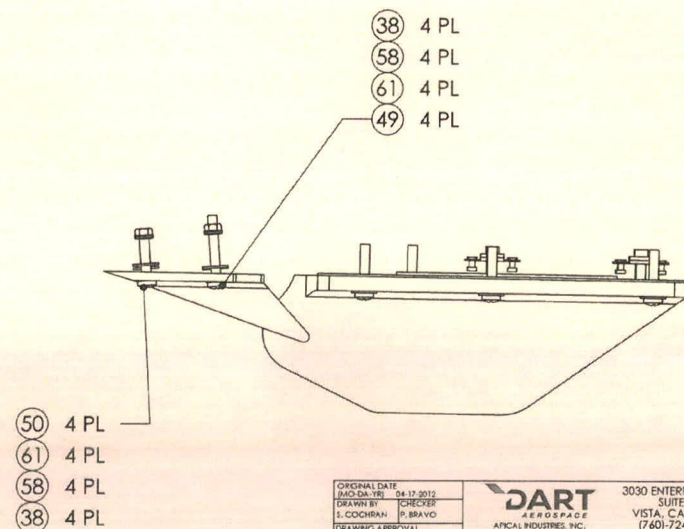
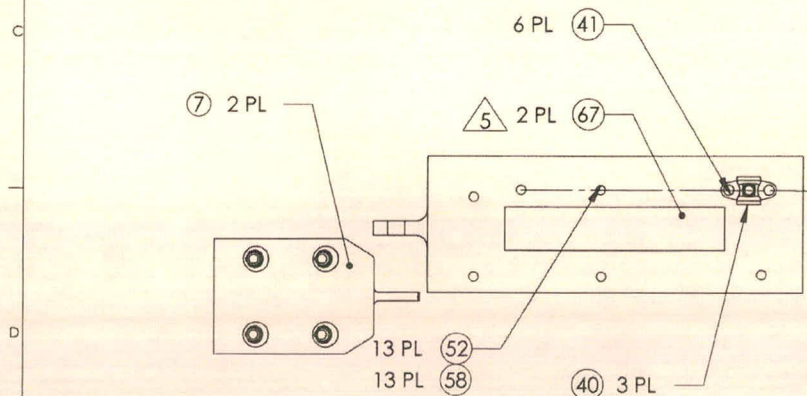
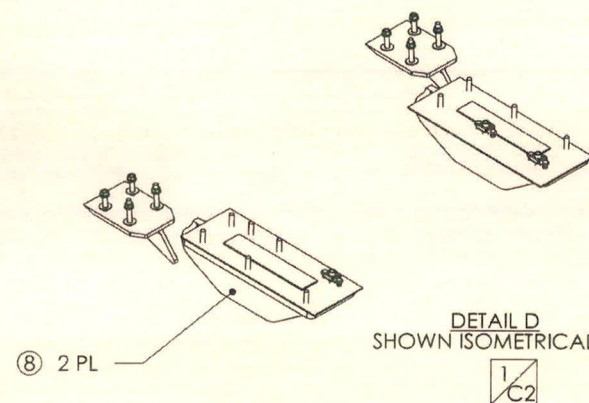
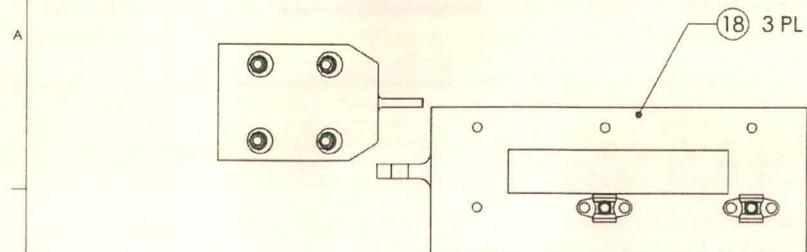
A119 CABLE CUTTERS KIT

SIZE	CAGE CODE	DWG. NO.	REV.
B	07M26	649.4700	C

SCALE NONE

SHEET 4 OF 5

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ORIGINAL DATE 04-17-2012		3030 ENTERPRISE CT., SUITE A VISTA, CA, 92081 (760)-724-5300	
DRAWN BY S. COCHRAN	CHECKED P. BRAVO	A119 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO 04-17-2012 CONTRACT NO.		SIZE B	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07M26	DWG. NO. 649.4700
		SCALE NONE	SHEET 5 OF 5

Linda Lacelle

From: Linda Lacelle
Sent: Wednesday, November 7, 2018 11:21 AM
To: Patrick Duval; Caitlin Crooks
Cc: Jason Leroux; Jean-Luc Menard; Marc Bellavance
Subject: RE: 649.4701- rev C
Attachments: 649.4900 A1 CUTTER ASSY.pdf

Thx Pat
Pls see below

From: Patrick Duval
Sent: Tuesday, November 6, 2018 5:43 PM
To: Caitlin Crooks <ccrooks@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>
Cc: Jason Leroux <jleroux@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>
Subject: RE: 649.4701- rev C

Linda,
Here's a quick list of what I will need in order to make my kit to rev C.

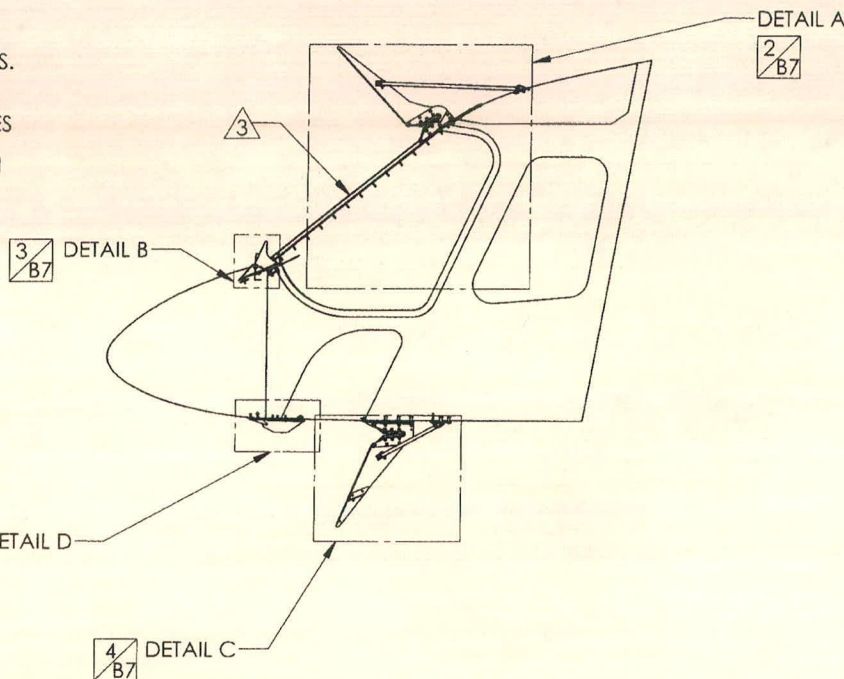
- 649.5111 need some at rev A1 (got some in quarantine) – are these good to use?
 - 649.5112 need some at rev A1 (got some in quarantine) – are these good to use?
 - 649.4811 need some at rev A – WJ>OS – approx. 3wks
 - 649.4816 need some at rev A – WJ>OS – approx. 3wks
 - 649.4813 need some at rev A – WJ>OS – approx. 3wks
 - 649.5214 need some at rev A – Machining>OS- approx. 4-5wks aro
 - 649.5010 need some at rev C1 – Machining>OS- approx. 4-5wks aro
 - 649.4902 need some at rev A – do the 649.5301 and 649.8301 need to be at an older rev? see attached
- Handwritten notes:*
x 4 each
Rev A?

Also for me to complete the kit from RA173 we will need to add, remove some of the hardware to make it as per rev C.

Sorry for the delay... this is a big mess and I don't what to rush and ship something that's not good.

Pat Duval
QC Coordinator

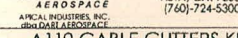
6 TRIM AFT EDGE AS REQUIRED



8	80	NAS1330S08 K8321	RIVNUT	NAS1330S08K8321		8	61	601.2381	WASHER	NAS620C-10L	
2	79	601.1953	SCREW	MS27039-1-12		8	60	601.2638	WASHER	NAS1149F0432P	
2	78	649.5113	WIPER DEFLECTOR SHIM		△	18	59	601.2764	WASHER	NAS1149FN832P	
4	77	601.4085	RIVET	NAS93038-5-03		53	58	601.1607	WASHER	NAS1149F0332P	
4	76	600.0846	RIVET	MS20426AD4-4		2	57	601.3470	WASHER	AN970-3	
8	75	601.4084	RIVNUT	NAS1330S08K8106		6	56	601.1365	SCREW	MS27039-1-10	
2	74	649.4819	SHIM			2	55	601.1621	SCREW	MS27039-1-08	
1	73	649.4818	SHIM			2	54	601.3289	SCREW	MS27039-1-25	
32	72	601.1710	NUTPLATE RIVET	MS20426AD3-4		26	53	601.2765	SCREW	MS27039-0819	
16	71	601.4083	NUTPLATE	MS21069L08		13	52	601.3190	SCREW	MS27039-1-13	
4	70	601.1869	WASHER	NAS1149C4R832R		3	51	601.3124	SCREW	MS27039-0824	
12	69	601.2988	SCREW	MS27039-0813		4	50	601.1622	SCREW	MS27039-1-14	
1	68	649.4820	SHIM		△	4	49	601.2910	SCREW	MS27039-1-18	
4	67	649.4817	SHIM			2	48	MS24694562	SCREW	MS24694562	
16	66	601.3151	WASHER	NAS1149F0363P			47		DELETED		
3	65	601.1887	NUT	MS21042-4		2	46	601.3164	SCREW	MS24694C57	
	64		DELETED			2	45	601.1125	RIVET	MS20470AD5-11	
1	63	600.1012	SEALANT	PR-1425 CLASS B			44		DELETED		
1	62	601.2045	RTV	LOCITE 598			43		DELETED		
4701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.	4701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
					△	22	42	601.1119	RIVET	MS20470AD4-5	

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: P02		
N/C	INITIAL RELEASE	01-26-12	P. BRAY
A	INCORPORATED ECH 03444, 03489	04-17-12	P. BRAY
B	INCORPORATED ECH 03527	05-29-12	P. BRAY
C	INCORPORATED ECH 03732, 03885, 04084, 05503	07-28-16	P. BRAY
D	INCORPORATED ECH 06731	04-04-17	P. BRAY
E	INCORPORATED ECH 05818	08-02-17	P. BRAY
F	INCORPORATED ECH 05856, 05875, 25940	03-08-18	P. BRAY

6	41	601.1616	RIVET	MS20426AD3-5	
3	40	601.1900	NUT/PLATE	MS21059-3	
1	39	601.3209	LOCKNUT	MS21042-4	
22	38	601.1624	LOCKNUT	MS21042-3	
9	37	601.1541	LOCKNUT	MS21042-08	
2	36	601.3008	INSERT	NAS1834C3-00	
2	35	601.3468	INSERT	NAS1832-4-7	
8	34	601.3459	INSERT	NAS1832-3-7	
	33		DELETED		
13	32	601.4061	SCREW	Y1420A230	DIN965
	31		DELETED		
24	30	601.1183	RIVET	CR3213-4-5	
	29		DELETED		
8	28	601.2481	CHERRY RIVET	CR3213-5-4	
	27		DELETED		
2	26	601.2669	BOLT	AN4C7A	
4	25	601.3555	BOLT	AH4C5A	
8	24	601.0788	BOLT	AN3C12A	
1	23	649.5112	WIPER DEFLECTOR		
1	22	649.5111	WIPER DEFLECTOR		
2	21	649.5110	WIPER DEFLECTOR		
8	20	647.9014	STRUT BRACKET		
4	19	646.9910	STRUT		
4	18	649.4815	SHIM		
3	17	649.4812	SHIM		
2	16	649.5213	SHIM		
2	15	649.4813	SHIM		
1	14	649.5211	SHIM		
2	13	601.3493	QUICK RELEASE PIN	BL5B510915C4	
1	12	649.4816	DOUBLER		
2	11	649.4814	DOUBLER		
2	10	649.5210	DOUBLER		
1	9	649.5011	DEFLECTOR		
2	8	649.5013	DEFLECTOR		
2	7	649.5012	DEFLECTOR		
1	6	649.4811	CLIP		
1	5	649.5212	BRACKET		
1	4	649.5214	BRACKET		
1	3	649.5010	DEFLECTOR		
1	2	649.4902	LOWER CUTTER ASSY		
1	1	649.4901	UPPER CUTTER ASSY		
X		649.4701	A119 CABLE CUTTERS KIT		

4701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY			PARTS LIST		
NEXT ASSY (S)	ORIGINAL DATE (MO-DA-YR) 04-17-2012	DRAWN BY CHECKER S. COCHRAN P. BRAVO	 3030 ENTERPRISE CT., SUITE A VICTOR, CA 92081 (760)-724-5300 APICAL INDUSTRIES, INC. (c) DART AEROSPACE		
	DRAWING APPROVAL P BRAVO 04-17-2012	CONTRACT No.	 A119 CABLE CUTTERS KIT		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ± .5°			REV.	REV.	
			SEE	CAGE CODE	DWG. NO.
			SCALE	NONE	649.4700
					1 OF 5

